

5

**INTEGRATED DEVICE WITH SURFACE-ATTACHED MOLECULAR  
MOIETIES AND RELATED MACHINE-READABLE INFORMATION**

**ABSTRACT OF THE DISCLOSURE**

10       The invention provides a device comprising a substrate having a surface capable of attaching a plurality of molecular moieties, or a surface having a plurality of molecular moieties attached thereto. The substrate also contains machine-readable information relating to the molecular moieties. The information may be contained in a discrete region of the substrate that is non-coplanar with respect to the substrate surface having the plurality of molecular moieties attached thereto. The information may, for example, relate to the identity of the attached molecular moieties or to instructions for attaching the molecular moieties. Also provided are methods and machines for forming and using the devices.

15

20

25